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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,817	07/28/2003	Hideki Ozawa	1259-03	5866
	7590 11/17/2004		EXAMINER	
IP DEPARTMENT OF PIPER RUDNICK LLP ONE LIBERTY PLACE, SUITE 4900			AHMED, SHEEBA	
1650 MARKE	1650 MARKET ST		ART UNIT	PAPER NUMBER
PHILADELPE	IIA, PA 19103		1773	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/628,817	OZAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Sheeba Ahmed	1773
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet with	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT! - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory is Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a report. a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT!	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on		
	This action is non-final.	
 Since this application is in condition for all 	owance except for formal matter	S, prosecution as to the marite is
closed in accordance with the practice und	der <i>Ex parte Quayl</i> e, 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims		
· ·	4'	
4) ☐ Claim(s) <u>1-12</u> is/are pending in the applica		
4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed.	idrawn from consideration.	
6) Claim(s) <u>1-12</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction ar	nd/or election requirement.	
Application Papers	·	
9) The specification is objected to by the Exan	ninor	
10) The drawing(s) filed on 28 July 2003 is/are:	al accepted or by a bireter	
Applicant may not request that any objection to	the drawing(s) he hold in chaves a	to by the Examiner.
Replacement drawing sheet(s) including the cor	Tection is required if the drawing(a):	. See 37 CFR 1.85(a).
11) The oath or declaration is objected to by the	Examiner. Note the attached O	is objected to, See 37 CFR 1.121(d). ffice Action or form PTO 152
Priority under 35 U.S.C. § 119		moc Action of form FTO-152.
	ian naisaitu wadan 05 t to o o o w	
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	ign phonty under 35 U.S.C. § 11	9(a)-(d) or (f).
1. ☐ Certified copies of the priority docume	ents have been recoived	
2. Certified copies of the priority docume	ents have been received in Apoli	ication No
3. Copies of the certified copies of the p	riority documents have been roo	raived in this National Ct
application from the International Bur	eau (PCT Rule 17 2/a))	owed in this Mahonal Stage
* See the attached detailed Office action for a l	ist of the certified copies not rece	eived.
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ttachment(s)		
Notice of References Cited (PTO-892)	🗀	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summ Paper No(s)/Ma	nary (PTO-413) iil Date
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 10/16/03.	08) 5) U Notice of Inform	ral Patent Application (PTO-152)
Patent and Trademark Office	6)	
OL 326 (Day 4 04)	Action Summary	Part of Paner No /Mail Data 44422004

Office Action Summary

Part of Paper No./Mail Date 11132004

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1, 3-6, and 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Schlueter, Jr. et al. (US 6,201,945)

Schlueter, Jr. et al. disclose a polyimide film containing electrically conductive doped metal oxide filler dispersed therein and wherein the polyimide film has a surface resistivity of from 10⁴ to 10¹² ohm/sq (Column 4, lines 3-7), a volume resistivity of from 10⁴ to 10¹¹ ohm.cm (Column 8, lines 50-60) and has a thickness of form about 25 to about 150 microns thick (Column 8, lines 41-45). The film may have an outer layer. The film is prepared by using a reaction product of a diamine and a dianhydride dissolved in a solvent, adding and dispersing an appropriate amount of filler, casting the mixture of a surface, removing the solvent by evaporation and eating to convert the polyamic acid to polyimide (Column 9, lines 15-30). Preferred doped metal oxides include aluminum doped zinc oxide. Additional conductive filler may be present in the polyimide layer and examples include indium tin oxide. The desired resistivity can be obtained by varying the concentration of the conductive fillers (Column 12, lines 25-60). With regards to the limitation that the film is antistatic, the Examiner takes the position that such a property limitation is inherently met by the polyimide film taught by Schlueter, Jr. et al. given that

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the chemical composition of the film taught by Schlueter, Jr. et al. and that of the claimed invention is identical. All limitations of claims 1, 3, -6, 8-12 are either inherent or disclosed in the above reference.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schlueter, Jr. et al. (US 6,201,945)

Schlueter, Jr. et al. disclose a polyimide film containing electrically conductive doped metal oxide filler dispersed therein and wherein the polyimide film has a surface resistivity of from 10⁴ to 10¹² ohm/sq (Column 4, lines 3-7), a volume resistivity of from 10⁴ to 10¹¹ ohm.cm (Column 8, lines 50-60) and has a thickness of form about 25 to about 150 microns thick (Column 8, lines 41-45). The film may have an outer layer. The film is prepared by using a reaction product of a diamine and a dianhydride dissolved in a solvent, adding and dispersing an appropriate amount of filler, casting the mixture of a surface, removing the solvent by evaporation and eating to convert the polyamic acid to polyimide (Column 9, lines 15-30). Preferred doped metal oxides include aluminum doped zinc oxide. Additional conductive filler may be present in the polyimide layer and

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examples include indium tin oxide. The desired resistivity can be obtained by varying the concentration of the conductive fillers (Column 12, lines 25-60).

Schlueter, Jr. et al. do not teach that the metal oxide and indium tin oxide particle are present in a weight ratio of 0.01 to 0.1 or that the indium tin oxide particle have a particle size of no greater than 0.1 microns.

However, it would have been obvious to one having ordinary skill in the art to optimize the size and amount of the metal oxide and indium tin oxide particles given that Schlueter, Jr. et al. specifically teach that the desired resistivity can be obtained by varying the concentration of the conductive fillers.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (571)272-1504. The examiner can normally be reached on Mondays and Thursdays from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571)272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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November 12, 2004